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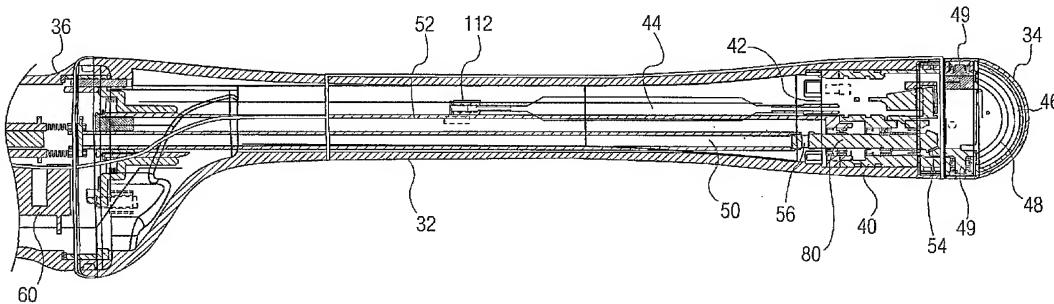
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(54) Title: **ULTRASOUND PROBE WITH MULTIPLE FLUID CHAMBERS**



(57) **Abstract:** An ultrasound probe includes a transducer (46) which is mechanically oscillated to sweep beams from the transducer over an image region of a subject. The transducer is located in a first compartment of a fluid-filled chamber which is coupled to a second compartment of the fluid-filled chamber by a bubble trap tube. A drive shaft (50) which is coupled to oscillate the transducer enters and passes through the secondary chamber before terminating at the transducer oscillation mechanism in the main chamber. This locates the dynamic seal of the drive shaft which is connected between the fluid-filled chamber and the outside air so that any air leakage of the seal will leak into the secondary compartment and not into the compartment where the transducer is located.

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